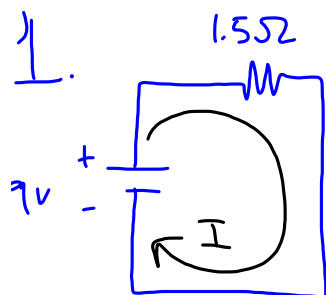


DRAW!

Battery

Resistor

Light Bulb

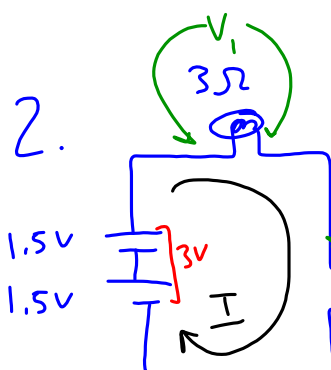


Current in Circuit:

$$V = IR$$

$$I = \frac{V}{R}$$

$$= \frac{9V}{1.5\Omega} = 6A$$

Resistors in series  
ADD

$$R_{\text{total}} = 6\Omega$$

$$V_{\text{total}} = 3V$$

Batteries in series  
ADD

$$V_{\text{total}} = IR_{\text{total}}$$

$$I = \frac{V_{\text{total}}}{R_{\text{total}}}$$

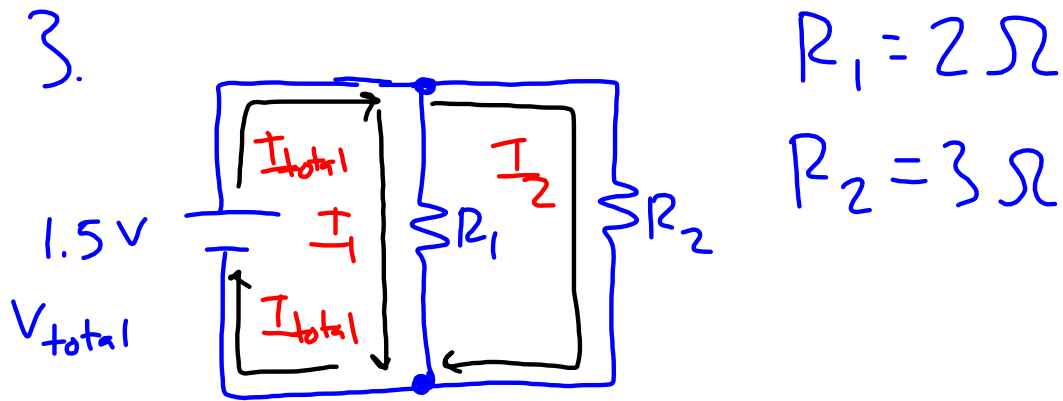
$$= \frac{3V}{6\Omega} = 0.5A$$

1st Light Bulb:

$$\begin{aligned} V_1 &= IR_1 \\ &= (0.5A)(3\Omega) \\ &= 1.5V \end{aligned}$$

2nd Light Bulb:

$$\begin{aligned} V_2 &= IR_2 \\ &= (0.5A)(3\Omega) \\ &= 1.5V \end{aligned}$$



$$V_1 = 1.5V$$

$$I_1 = 0.75A$$

$$R_1 = 2\Omega$$

$$I_1 = \frac{V_1}{R_1}$$

$$= \frac{1.5V}{2\Omega}$$

$$= 0.75A$$

$$V_2 = 1.5V$$

$$I_2 = 0.5A$$

$$R_2 = 3\Omega$$

$$I_2 = \frac{V_2}{R_2}$$

$$= \frac{1.5V}{3\Omega}$$

$$= 0.5A$$

$$I_{total} = I_1 + I_2$$

$$= 0.75A + 0.5A$$

$$= 1.25A$$

4.

